Introduction to Visual Studio Team System

- **Expanding Visual Studio**
  - Include more roles in the SDL
    - Infrastructure Architect
    - Solution Architect
    - Developer
    - Tester
    - Project Manager
  - Focused On
    - Design for Operations
      - Ability to verify designs against your current operations
    - Increased reliability
      - Verify this early in the lifecycle
    - Quality early often
      - Give tools to the developer to test earlier
        - Testing Framework
      - Better tools for the software tester
    - Predictability & Visibility
      - Integration of metrics and status with the toolset
      - Enabling the exposure of the project to those outside of the project
- **Team Architect**
  - Application Designer
    - White boarding the application
      - Logical Infrastructure Modeling
      - Deployment Modeling
      - Class Modeling
    - Application Connection Designer
  - Infrastructure Designer
  - Deployment Designer
- **Team Foundation**
  - Work Item Tracking
  - Version Control
    - Not VSS
    - Built New
    - 3 Tier Web Service - Asp.NET
    - SQL Server 2005 backend
    - Features
      - Integrated checkin
      - Shelving
      - Powerful parallel development
        - Supplies isolation for multiple teams running parallel
        - Help with versioning branching
      - Offsite development
      - Secure
        - Similar model to file system ACLs
      - Replacement for Source Depot
        - Built to scale
      - Feature Details
        - Atomic Checkin
          - Get all or none of changes / checkins
        - Changesets
          - Everytime a change is checked in... changeset version changes
          - Simplifies change management scenarios
        - Workitem
          - Manage a change at the workitem level
          - Ability to associate work items with source changes
          - Ability to modify a check in action (resolve for example)
        - Policy
          - Ability to define policies
          - Only allow source to be checked if it associated with an work item
          - Checkin Policies
            - Custom
            - Ship
              - Work Item Association
              - Checkin Tests Pass
              - Static Analysis is clean
                - Analysis of code (FxCop - automated code review)
          - Beta2 - Example of a Checkin Policy
        - Shelving
          - Set aside changes without checkin
          - Typically implemented via branching in VSS
          - Scenarios for use
            - Switch Tasks
            - Backup work in progress
            - Check Work in Progress
            - Share work in progress
        - Subtopic
  - Build Automation
  - Team Communication
    - SharePoint Portal
    - Specialized WebParts
  - Reporting
    - Datawarehouse
    - Customizable
- **Process**
  - Problems with
    - Great deal of work
      - Often viewed as effecting productivity
  - Encourages
    - Predictability
    - Repeatability
  - Resulting in
    - Better estimation ability
    - more efficiency in execution of plan
  - VS Team System
    - Focuses on
      - Integrated process steps close at hand
      - Capturing critical metrics
      - Streamlining the process with development
      - Metrics gathered automatically (status)
    - Guidance
      - In the box
        - MSF for Agile
        - MSF for CMMI
      - Third Party
        - Borland
          - UML
        - Osellus
          - Authoring Environment
        - BrightWork
          - MSF
      - Customization

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